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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/760,243	01/21/2004	Kia Silverbrook	MPA12US	1580
24011	7590	07/26/2006		EXAMINER
SILVERBROOK RESEARCH PTY LTD 393 DARLING STREET BALMAIN, NSW 2041 AUSTRALIA			MARTIN, LAURA E	
			ART UNIT	PAPER NUMBER
			2853	

DATE MAILED: 07/26/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	10/760,243	SILVERBROOK ET AL. <i>H</i>
	<b>Examiner</b>	<b>Art Unit</b>
	Laura E. Martin	2853

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 11 July 2006.  
 2a) This action is FINAL.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-8 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1-8 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on 21 January 2004 is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3, and 5-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Silverbrook et al. (US 6439908).

As per claim 1, Silverbrook et al. teaches a printhead assembly, comprising: at least two printhead modules (figure 2, element 12) each comprising at least two printhead integrated circuits (figure 4, element 18), each of which have nozzles formed therein for delivering printing fluid onto the surface of the print media (column 3, lines 45-47), and a support member supporting the at least two printhead integrated circuits (figure 4, element 32); and a casing in which the at least two printhead modules are removably mounted (figure 2, elements 14, 64, lower 76, and 94) wherein each support member has at least one longitudinally extending channel for carrying the printing fluid for the printhead integrated circuits which is configured to communicate said printing fluid with the channel of the adjacent support member (figure 2, element 16), and at least one fluid connector is provided to connect at least one printing fluid delivery hose (figure 12, element 78); however, there is no reference number in the drawings) from a printing fluid supply to the lat least one channel of the support member mounted at one longitudinal end of one of the printhead modules.

As per claim 3, Silverbrook et al. teaches a printhead assembly, wherein a sealing adhesive is provided at the interface of the interconnected at least one printhead fluid connector and printhead module (column 3, line 65-column 4, line 5).

As per claim 5, Silverbrook et al. teaches a printhead assembly, wherein the at least one fluid connector has at least one tubular portion for connecting with the at last one fluid delivery hose and the at least one tubular position is arranged to be in fluid connection with the at least one channel of the printhead module (figure 12, element 78).

As per claim 6, Silverbrook et al. teaches a printhead assembly wherein the at least one tubular portion is arranged so as to form a linear fluid connection with the at least one first channel (column 7, lines 5-15).

As per claim 7, Silverbrook et al. teaches a printhead assembly, wherein two fluid connectors (figure 3, element 42) are provided, one connected at each longitudinal end of the at last one printhead module, for providing fluid supply from both ends of the at least one channel (figure 3).

As per claim 8, Silverbrook et al. teaches a printhead assembly, wherein the at least one printhead module (figure 15, element 10) is formed as a unitary arrangement of the at least two printhead integrated circuits (figure 2, element 18), the support member (figure 4, element 28), at least one fluid distribution member (figure 8, element 72) mounting the at least two printhead integrated circuits to the support member, and an electrical connector (column 3, lines 59-65) for connecting electrical signals to the at least two printhead integrated circuits; and the support member has a plurality of

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apertures (figure 8, element 72) extending through a wall of the support member arranged so as to direct the printing fluid from the at least one channel to associated nozzles in both, or if more than two, all of the printhead integrated circuits by way of respective ones of the fluid distribution members (column 4, lines 41-44).

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Silverbrook et al. (US 6439908) in view of Milan. (US 5658158).

Silverbrook teaches a printhead assembly with female end portions (figure 12, element 78), in which the at least one fluid connector is arranged to interconnect (column 7, lines 5-15); however it does not disclose each support member having a complementary male and female end portions.

Milan teaches the complementary end portions (figures 1 and 3).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the printhead of Silverbrook et al. with the disclosure of Milan in order to create an apparatus with easy assembly and disassembly.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Silverbrook et al. (US 6439908) in view of Lu et al. (US 2003/0007042).

Silverbrook et al. teaches a printhead assembly with sealing adhesive (column 3, line 65-column 4, line 5); however, it does not disclose the sealing adhesive being epoxy.

Lu et al. teaches sealing adhesive being epoxy [0002]

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the invention of Silverbrook et al. with the disclosure of Lu et al. in order to create a more durable printhead.

***Response to Amendment***

Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura E. Martin whose telephone number is (571) 272-2160. The examiner can normally be reached on Monday - Friday, 7:00 - 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen D. Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Laura E. Martin



STEPHEN MEIER  
SUPERVISORY PATENT EXAMINER